SEQUENCE LISTING

- <110> Beamer, Lesa J.
 Eisenberg, David
 Carroll, Stephen F.
- <120> BACTERICIDAL/PERMEABILITY-INCREASING PROTEIN:
 CRYSTALLIZATION, X-RAY DIFFRACTION, THREE-DIMENSIONAL
 STRUCTURE DETERMINATION, RATIONAL DRUG DESIGN AND
 MOLECULAR MODELING OF RELATED PROTEINS
- <130> 11034US02
- <140> 09/446,415
- <141> 2000-07-19
- <150> 08/879,565
- <151> 1997-06-20
- <160> 12
- <170> PatentIn Ver. 2.1
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- cct tgc aac gcg ccg aga tgg gtg tcc ctg atg gtg ctc gtc gcc ata 102
 Pro Cys Asn Ala Pro Arg Trp Val Ser Leu Met Val Leu Val Ala Ile
- ggc acc gcc gtg aca gcg gcc gtc aac cct ggc gtc gtg gtc agg atc 150 Gly Thr Ala Val Thr Ala Ala Val Asn Pro Gly Val Val Val Arg Ile -5 1 1 5
- cag aag gag ctg aag agg atc aag att cct gac tac tca gac agc ttt 246 Gln Lys Glu Leu Lys Arg Ile Lys Ile Pro Asp Tyr Ser Asp Ser Phe 30 35 40

									- 2	_						
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	atc Ile															294
	cgt Arg															342
	ggc Gly 75															390
	tgg Trp															438
	agc Ser															486
	ccc Pro															534
	atc Ile							Ile								582
	atc Ile 155															630
	aac Asn															678
ctg Leu	caa Gln	cct Pro	tat Tyr	ttc Phe 190	cag Gln	act Thr	ctg Leu	cca Pro	gta Val 195	atg Met	acc Thr	aaa Lys	ata Ile	gat Asp 200	tct Ser	726
	gct Ala															774
	acc Thr															822
	aat Asn 235															870
	gac Asp					Leu										918
	Gly ggg															966

gat gac atg att c Asp Asp Met Ile F 285					1014						
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ata cag atc cat g Ile Gln Ile His V 315					1110						
ccc acc ggc ctt a Pro Thr Gly Leu T 330					1158						
gtc ctc ccc aac t Val Leu Pro Asn S					1206						
aca act ggt tcc a Thr Thr Gly Ser M 365					1254						
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ggc ccc ttc ccg g Gly Pro Phe Pro V 395					1350						
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cct cac cag aac t Pro His Gln Asn E 445					1491						
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<212> PRT

<213> Human

<223> "rBPI"

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Asn Pro Gly Val Val Arg Ile Ser Gln Lys Gly Leu Asp Tyr Ala
5 10 15

Ser Gln Gln Gly Thr Ala Ala Leu Gln Lys Glu Leu Lys Arg Ile Lys 20 25 30

Ile Pro Asp Tyr Ser Asp Ser Phe Lys Ile Lys His Leu Gly Lys Gly 35 40 45

His Tyr Ser Phe Tyr Ser Met Asp Ile Arg Glu Phe Gln Leu Pro Ser 50 55 60 65

Ser Gln Ile Ser Met Val Pro Asn Val Gly Leu Lys Phe Ser Ile Ser 70 75 80

Asn Ala Asn Ile Lys Ile Ser Gly Lys Trp Lys Ala Gln Lys Arg Phe 85 90 95

Leu Lys Met Ser Gly Asn Phe Asp Leu Ser Ile Glu Gly Met Ser Ile 100 105 110

Ser Ala Asp Leu Lys Leu Gly Ser Asn Pro Thr Ser Gly Lys Pro Thr 115 120 125

Ile Thr Cys Ser Ser Cys Ser Ser His Ile Asn Ser Val His Val His 130 145

Ile Ser Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys
150 155 160

Ile Glu Ser Ala Leu Arg Asn Lys Met Asn Ser Gln Val Cys Glu Lys 165 170 175

Val Thr Asn Ser Val Ser Ser Lys Leu Gln Pro Tyr Phe Gln Thr Leu 180 185 190

Pro Val Met Thr Lys Ile Asp Ser Val Ala Gly Ile Asn Tyr Gly Leu 195 200 205

Val Ala Pro Pro Ala Thr Thr Ala Glu Thr Leu Asp Val Gln Met Lys 210 215 220 225

Gly Glu Phe Tyr Ser Glu Asn His His Asn Pro Pro Pro Phe Ala Pro 230 235 240

Pro Val Met Glu Phe Pro Ala Ala His Asp Arg Met Val Tyr Leu Gly 245 250 255

Leu Ser Asp Tyr Phe Phe Asn Thr Ala Gly Leu Val Tyr Gln Glu Ala 260 265 270

Gly Val Leu Lys Met Thr Leu Arg Asp Asp Met Ile Pro Lys Glu Ser 275 280 285

Lys Phe Arg Leu Thr Thr Lys Phe Phe Gly Thr Phe Leu Pro Glu Val 290 295 300 305

Ala Lys Lys Phe Pro Asn Met Lys Ile Gln Ile His Val Ser Ala Ser 310 315 320

Thr Pro Pro His Leu Ser Val Gln Pro Thr Gly Leu Thr Phe Tyr Pro 325 330 335

Ala Val Asp Val Gln Ala Phe Ala Val Leu Pro Asn Ser Ser Leu Ala 340 345 350

Ser Leu Phe Leu Ile Gly Met His Thr Thr Gly Ser Met Glu Val Ser 355 360 365

Ala Glu Ser Asn Arg Leu Val Gly Glu Leu Lys Leu Asp Arg Leu Leu 370 385 380 385

Leu Glu Leu Lys His Ser Asn Ile Gly Pro Phe Pro Val Glu Leu Leu 390 395 400

Gln Asp Ile Met Asn Tyr Ile Val Pro Ile Leu Val Leu Pro Arg Val 405 410 415

Asn Glu Lys Leu Gln Lys Gly Phe Pro Leu Pro Thr Pro Ala Arg Val 420 425 430

Gln Leu Tyr Asn Val Val Leu Gln Pro His Gln Asn Phe Leu Leu Phe 435 440 445

Gly Ala Asp Val Val Tyr Lys 450 455

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<220>

<400> 3

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Ala Ser Gln Gln Gly Thr Ala Ala Leu Gln Lys Glu Leu Lys Arg Ile 20 25 30

Lys Ile Pro Asp Tyr Ser Asp Ser Phe Lys Ile Lys His Leu Gly Lys 35 40 45

Gly His Tyr Ser Phe Tyr Ser Met Asp Ile Arg Glu Phe Gln Leu Pro 50 55 60

Ser Ser Gln Ile Ser Met Val Pro Asn Val Gly Leu Lys Phe Ser Ile Ser Asn Ala Asn Ile Lys Ile Ser Gly Lys Trp Lys Ala Gln Lys Arg Phe Leu Lys Met Ser Gly Asn Phe Asp Leu Ser Ile Glu Gly Met Ser 105 Ile Ser Ala Asp Leu Lys Leu Gly Ser Asn Pro Thr Ser Gly Lys Pro Thr Ile Thr Cys Ser Ser Cys Ser Ser His Ile Asn Ser Val His Val 135 His Ile Ser Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys 150 145 Lys Ile Glu Ser Ala Leu Arg Asn Lys Met Asn Ser Gln Val Cys Glu 165 170 Lys Val Thr Asn Ser Val Ser Ser Glu Leu Gln Pro Tyr Phe Gln Thr 185 180 Leu Pro Val Met Thr Lys Ile Asp Ser Val Ala Gly Ile Asn Tyr Gly 200 Leu Val Ala Pro Pro Ala Thr Thr Ala Glu Thr Leu Asp Val Gln Met 210 215 Lys Gly Glu Phe Tyr Ser Glu Asn His His Asn Pro Pro Phe Ala Pro Pro Val Met Glu Phe Pro Ala Ala His Asp Arg Met Val Tyr Leu Gly Leu Ser Asp Tyr Phe Phe Asn Thr Ala Gly Leu Val Tyr Gln Glu Ala Gly Val Leu Lys Met Thr Leu Arg Asp Met Ile Pro Lys Glu Ser Lys Phe Arg Leu Thr Thr Lys Phe Phe Gly Thr Phe Leu Pro Glu 295 Val Ala Lys Lys Phe Pro Asn Met Lys Ile Gln Ile His Val Ser Ala 310 315 Ser Thr Pro Pro His Leu Ser Val Gln Pro Thr Gly Leu Thr Phe Tyr 330 325 Pro Ala Val Asp Val Gln Ala Phe Ala Val Leu Pro Asn Ser Ser Leu 345 Ala Ser Leu Phe Leu Ile Gly Met His Thr Thr Gly Ser Met Glu Val Ser Ala Glu Ser Asn Arg Leu Val Gly Glu Leu Lys Leu Asp Arg Leu 380 375

Leu Leu Glu Leu Lys His Ser Asn Ile Gly Pro Phe Pro Val Glu Leu 385 390 395 400

Leu Gln Asp Ile Met Asn Tyr Ile Val Pro Ile Leu Val Leu Pro Arg
405 410 415

Val Asn Glu Lys Leu Gln Lys Gly Phe Pro Leu Pro Thr Pro Ala Arg 420 425 430

Val Gln Leu Tyr Asn Val Val Leu Gln Pro His Gln Asn Phe Leu Leu 435 440 445

Phe Gly Ala Asp Val Val Tyr Lys 450 455

<210> 4

<211> 456

<212> PRT

<213> Human

<220>

<223> lipopolysaccharide binding protein (LBP) (Figure
5)

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Ala Asn Pro Gly Leu Val Ala Arg Ile Thr Asp Lys Gly Leu Gln Tyr
1 5 10 15

Ala Ala Gln Glu Gly Leu Leu Ala Leu Gln Ser Glu Leu Leu Arg Ile
20 25 30

Thr Leu Pro Asp Phe Thr Gly Asp Leu Arg Ile Pro His Val Gly Arg
35 40 45

Gly Arg Tyr Glu Phe His Ser Leu Asn Ile His Ser Cys Glu Leu Leu 50 55 60

His Ser Ala Leu Arg Pro Val Pro Gly Gln Gly Leu Ser Leu Ser Ile 65 70 75 80

Ser Asp Ser Ser Ile Arg Val Gln Gly Arg Trp Lys Val Arg Lys Ser 85 90 95

Phe Phe Lys Leu Gln Gly Ser Phe Asp Val Ser Val Lys Gly Ile Ser 100 105 110

Ile Ser Val Asn Leu Leu Gly Ser Glu Ser Ser Gly Arg Pro Thr 115 120 125

Val Thr Ala Ser Ser Cys Ser Ser Asp Ile Ala Asp Val Glu Val Asp 130 135 140

Met Ser Gly Asp Leu Gly Trp Leu Leu Asn Leu Phe His Asn Gln Ile 145 150 155 160

Glu Ser Lys Phe Gln Lys Val Leu Glu Ser Arg Ile Cys Glu Met Ile 165 170 175

Gln Lys Ser Val Ser Ser Asp Leu Gln Pro Tyr Leu Gln Thr Leu Pro 180 185 190 Val Thr Thr Glu Ile Asp Ser Phe Ala Asp Ile Asp Tyr Ser Leu Val 200 195 Glu Ala Pro Arg Ala Thr Ala Gln Met Leu Glu Val Met Phe Lys Gly 215 220 Glu Ile Phe His Arg Asn His Arg Ser Pro Val Thr Leu Leu Ala Ala Val Met Ser Leu Pro Glu Glu His Asn Lys Met Val Tyr Phe Ala Ile 250 Ser Asp Tyr Val Phe Asn Thr Ala Ser Leu Val Tyr His Glu Gly 260 Tyr Leu Asn Phe Ser Ile Thr Asp Asp Met Ile Pro Pro Asp Ser Asn 280 275 Ile Arg Leu Thr Thr Lys Ser Phe Arg Pro Phe Val Pro Arg Leu Ala 290 295 Arg Leu Tyr Pro Asn Met Asn Leu Glu Leu Gln Gly Ser Val Pro Ser 315 310 Ala Pro Leu Leu Asn Phe Ser Pro Gly Asn Leu Ser Val Asp Pro Tyr 330 335 325 Met Glu Ile Asp Ala Phe Val Leu Leu Pro Ser Ser Lys Glu Pro 345 Val Phe Arg Leu Ser Val Ala Thr Asn Val Ser Ala Thr Leu Thr Phe 360 365 Asn Thr Ser Lys Ile Thr Gly Phe Leu Lys Pro Gly Lys Val Lys Val 375 Glu Leu Lys Glu Ser Lys Val Gly Leu Phe Asn Ala Glu Leu Leu Glu 395 Ala Leu Leu Asn Tyr Tyr Ile Leu Asn Thr Phe Tyr Pro Lys Phe Asn Asp Lys Leu Ala Glu Gly Phe Pro Leu Pro Leu Lys Arg Val Gln 425 Leu Tyr Asp Leu Gly Leu Gln Ile His Lys Asp Phe Leu Phe Leu Gly Ala Asn Val Gln Tyr Met Arg Val

<210> 5

<211> 476

<212> PRT

<213> Human

<220>

<223> phospholipid transfer protein (PLTP) (Figure 5)

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Lys Pro Ser Gly Thr Thr Ile Ser Val Thr Ala Ser Val Thr Ile Ala 325 330 335

Leu Val Pro Pro Asp Gln Pro Glu Val Gln Leu Ser Ser Met Thr Met 340 345 350

Asp Ala Arg Leu Ser Ala Lys Met Ala Leu Arg Gly Lys Ala Leu Arg 355 360 365

Thr Gln Leu Asp Leu Arg Arg Phe Arg Ile Tyr Ser Asn His Ser Ala 370 375 380

Leu Glu Ser Leu Ala Leu Ile Pro Leu Gln Ala Pro Leu Lys Thr Met 385 390 395 400

Leu Gln Ile Gly Val Met Pro Met Leu Asn Glu Arg Thr Trp Arg Gly
405 410 415

Val Gln Ile Pro Leu Pro Glu Gly Ile Asn Phe Val His Glu Val Val 420 425 430

Thr Asn His Ala Gly Phe Leu Thr Ile Gly Ala Asp Leu His Phe Ala 435 440 445

Lys Gly Leu Arg Glu Val Ile Glu Lys Asn Arg Pro Ala Asp Val Arg 450 455 460

Ala Ser Thr Ala Pro Thr Pro Ser Thr Ala Ala Val 465 470 475

<210> 6

<211> 470

<212> PRT

<213> Human

<220>

<223> cholesteryl ester transfer protein (CETP) (Figure
5)

<400> 6

His Glu Ala Gly Ile Val Cys Arg Ile Thr Lys Pro Ala Leu Leu Val 1 5 10 15

Leu Asn His Glu Thr Ala Lys Val Ile Gln Thr Ala Phe Gln Arg Ala
20 25 30

Ser Tyr Pro Asp Ile Thr Gly Glu Lys Ala Met Met Leu Leu Gly Gln 35 40 45

Val Lys Tyr Gly Leu His Asn Ile Gln Ile Ser His Leu Ser Ile Ala
50 55 60

Ser Ser Gln Val Glu Leu Val Glu Ala Lys Ser Ile Asp Val Ser Ile 65 70 75 80

Gln Asn Val Ser Val Val Phe Lys Gly Thr Leu Lys Tyr Gly Tyr Thr 85 90 95

Thr Ala Trp Trp Leu Gly Ile Asp Gln Ser Ile Asp Phe Glu Ile Asp 100 105 110

Ser	Ala	Ile 115	Asp	Leu	Gln	Ile	Asn 120	Thr	Gln	Leu	Thr	Cys 125	Asp	Ser	Gly
Arg	Val 130	Arg	Thr	Asp	Ala	Pro 135	Asp	Cys	Tyr	Leu	Ser 140	Phe	His	Lys	Leu
Leu 145	Leu	His	Leu	Gln	Gly 150	Glu	Arg	Glu	Pro	Gly 155	Trp	Ile	Lys	Gln	Leu 160
Phe	Thr	Asn	Phe	Ile 165	Ser	Phe	Thr	Leu	Lys 170	Leu	Val	Leu	Lys	Gly 175	Gln
Ile	Cys	Lys	Glu 180	Ile	Asn	Val	Ile	Ser 185	Asn	Ile	Met	Ala	Asp 190	Phe	Val
Gln	Thr	Arg 195	Ala	Ala	Ser	Ile	Leu 200	Ser	Asp	Gly	Asp	Ile 205	Gly	Val	Asp
Ile	Ser 210	Leu	Thr	Gly	Asp	Pro 215	Val	Ile	Thr	Ala	Ser 220	Tyr	Leu	Glu	Ser
His 225	His	Lys	Gly	His	Phe 230	Ile	Tyr	Lys	Asn	Val 235	Ser	Glu	Asp	Leu	Pro 240
Leu	Pro	Thr	Phe	Ser 245	Pro	Thr	Leu	Leu	Gly 250	Asp	Ser	Arg	Met	Leu 255	Tyr
Phe	Trp	Phe	Ser 260	Glu	Arg	Val	Phe	His 265	Ser	Leu	Ala	Lys	Val 270	Ala	Phe
Gln	Asp	Gly 275	Arg	Leu	Met	Leu	Ser 280	Leu	Met	Gly	Asp	Glu 285	Phe	Lys	Ala
Val	Leu 290	Glu	Thr	Trp	Gly	Phe 295	Asn	Thr	Asn	Gln	Glu 300	Ile	Phe	Gln	Glu
Val 305	Val	Gly	Gly	Phe	Pro 310	Ser	Gln	Ala	Gln	Val 315	Thr	Val	His	Cys	Leu 320
Lys	Met	Pro	Lys	Ile 325	Ser	Cys	Gln	Asn	Lys 330	Gly	Val	Val	Val	Asn 335	Ser
Ser	Val	Met	Val 340	Lys	Phe	Leu	Phe	Pro 345	Arg	Pro	Asp	Gln	Gln 350	His	Ser
Val	Ala	Туr 355	Thr	Phe	Glu	Glu	Asp 360	Ile	Val	Thr	Thr	Val 365	Gln	Ala	Ser
Tyr	Ser 370	Lys	Lys	Lys	Leu	Phe 375	Leu	Ser	Leu	Leu	Asp 380	Phe	Gln	Ile	Thr
Pro 385	Lys	Thr	Val	Ser	Asn 390	Leu	Thr	Glu	Ser	Ser 395	Ser	Glu	Ser	Ile	Gln 400
Ser	Phe	Leu	Gln	Ser 405	Met	Ile	Thr	Ala	Val 410	Gly	Ile	Pro	Glu	Val 415	Met
Ser	Arg	Leu	Glu 420	Val	Val	Phe	Thr	Ala 425	Leu	Met	Asn	Šer	Lys 430	Gly	Val

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Leu Leu Gln Met Asp Phe Gly Phe Pro Glu His Leu Leu Val Asp
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Phe Leu Gln Ser Leu Ser
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<211> 42
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<213> Human
<220>
<223> oligonucleotide from XcmI site to SphI site within
      BPI gene (encoding residues 348-361) containing
      the codon TCC for the serine at amino acid
      position 351
<400> 7
                                                                   42
cccaactcct ccctggcttc cctcttcctg attggcatgc ac
<210> 8
<211> 42
<212> DNA
<213> Human
<223> Oligonucleotide complementary to SEQ ID NO:5
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gggttcagga gggaccgaag ggagaaggac taaccgtacg tg
<210> 9
<211> 14
<212> PRT
<213> Human
<220>
<223> "wild type" amino acid sequence of residues
      348-361 in BPI
<400> 9
Pro Asn Ser Ser Leu Ala Ser Leu Phe Leu Ile Gly Met His
                                      10
                  5
<210> 10
<211> 42
<212> DNA
<213> Human
<220>
<223> oligonucleotide from XcmI site to SphI site within
      the BPI gene (encoding residues 348-361)
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containing the codon GCC for alanine at amino acid

position 351

<400> 10 cccaactccg ccctggcttc cctcttcctg attggcatgc ac	42
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<400> 12 Pro Asn Ser Ala Leu Ala Ser Leu Phe Leu Ile Gly Met His 1 5 10	

1